

THE ZOOLOGIST:

A MONTHLY JOURNAL

OF

NATURAL HISTORY.

THIRD SERIES—VOL. XVIII.

EDITED BY

J. E. HARTING, F.L.S., F.Z.S.,

MEMBER OF THE BRITISH ORNITHOLOGISTS' UNION.

DELECTANDO PARITERQUE MONENDO.

LONDON:

SIMPKIN, MARSHALL, HAMILTON, KENT & CO., LIMITED.

1894.

LONDON
WEST, NEWMAN AND CO., PRINTERS
HATTON GARDEN, E.C.



CONTENTS.

ALPHABETICAL LIST OF CONTRIBUTORS.

- APLIN, O. V., M.B.O.U.**
 Bank Vole in Oxfordshire, 52;
 Range of the Mediterranean
 Herring Gull, 58; Ostrich taking
 to the water voluntarily, 62;
 Notes on the Ornithology of Ox-
 fordshire, 1892 and 1893, 91;
 Stoats in ermine dress, 148, 223;
 Date of arrival of Lesser White-
 throat, 153; Cuckoo seen in
 March, 190; Eggs of the Tree
 Sparrow, 228; Early Cuckoos in
 1894, 263; Whimbrel in the Mid-
 lands, 266; Marsh Harrier nest-
 ing in Oxfordshire, 268; The
 autumn song of birds, 410
- ARCHIBALD, CHARLES F.**
 Ring Dove pairing with Domestic
 Pigeon, 23; Woodcock breeding
 in the Lake District, 188
- ARNOLD, Rev. F. H.**
 Autumnal migration of the Meadow
 Pipit, 426
- ATKINSON, E. W.**
 Young Cuckoo reared in a Swal-
 low's nest, 340
- BARRETT-HAMILTON, G. E. H.**
 English and Irish Jays, 61; The
 Marten in Ireland, 184, 187;
 Waxwing near Newmarket, 152;
 Polecat in Cambridgeshire, 303
- BATTERSBY, Mrs. FRANCES J.**
 Squirrels destructive in planta-
 tions, 148
- BAYLY, H. L.**
 Marten in Co. Wicklow, 394;
 Woodcocks nesting in Co. Wick-
 low, 480
- BLAGG, E. W. H.**
 Water Vole at a distance from
 water, 223
- BLATHWAYT, F. L.**
 Palmated Newt in Herefordshire,
 191
- BORRER, WILLIAM, M.A., F.L.S.**
 Cuckoo seen in March, 189
- BOULENGER, G. A., F.R.S., F.Z.S.**
 On the variations of the Smooth
 Snake, 10; On the size of the
 British Newts, 145
- BRADSHAW, GEORGE W.**
 Uncommon birds in Sussex, 60;
 Notes from Hastings, 228; Avo-
 cet in Sussex, 346
- BROWN, J. A. HARVIE, F.R.S.E.**
 Albatross at the Færoe Islands, 337
- BUCKNILL, J. A.**
 Cats catching butterflies and moths,
 24; Notes from Epsom, 25; Early
 nesting of the Heron, 152; Birds
 nesting near Epsom, 429
- BUTLER, A. G., Ph.D., F.L.S.**
 Breeding of the Saffron Finch in
 confinement, 460
- BUTLER, Lt.-Col. E. A.**
 Cuckoos calling on the wing, 338;
 Late nesting of the Goldfinch,
 344
- CAMBRIDGE, Rev. O. P., M.A., F.L.S.**
 Early arrival of the Cuckoo in
 1894, 224
- CAMERON, ALLAN GORDON**
 The origin and purpose of the horns
 and antlers of Ruminants, 241,
 281; Cuckoo calling on the wing,
 307
- CAMPBELL, JOHN M.**
 White-beaked Dolphin in Kil-
 brannan Sound, Arran, 424
- CARTER, JAMES**
 Cuckoo seen in March, 190;
 Habits of the Otter, 457
- CHAPMAN, ALFRED C.**
 Habits of the Otter, 108; Short-
 eared Owls in Northumberland,
 114, 226; Hooded Crow breeding
 in Northumberland, 227
- CHRISTY, MILLER, F.L.S.**
 Food of the Otter, 53; On an early
 notice and figure of the Great
 Auk, 142; Serotine Bat in Essex,
 423

CLARKE, WM. J.

Palmated Newt at Scarborough, 191; Blind Gudgeons, 230

CLELLON, R. M.

Little Auk in Co. Sligo, 64

COBURN, F.

Great Grey Shrike in Worcestershire, 21; White Wagtail in Worcestershire, 24; Waxwing in Worcestershire, 24; Red-breasted Snipe in Ireland, 63; Common Scoter in Warwickshire in August, 63; Grey Phalarope in Staffordshire, 112; Swimming powers of the Dipper, 112; Bank Vole in Warwickshire and Worcestershire, 303; Cuckoo calling on the wing, 307; Hooded Crow breeding in Warwickshire, 344; Mealy Redpoll in Worcestershire, 345

CORBIN, G. B.

Variation in the colour of the Fox, 335; Cats catching butterflies and moths, 336; Green Woodpecker pursued by a Sparrowhawk, 340; Montagu's Harrier in Hants, 341

CORDEAUX, JOHN

Lapland Bunting at Flamborough, 19; Bird life in Arctic Norway, 121; Cuckoo seen in March, 224; The Fauna of Lincolnshire, 253

CORNISH, JOHN B.

Lumpsucker at Penzance, 231

DAVIES, SUTTON A.

Ornithological notes from Mid-Hants, 295; Nesting of the Bittern in Hants, 311

DENWOOD, JOHN R.

The Badger, its period of gestation, 186; Woodcock breeding in the Lake District, 187; Nesting of the Dipper, 269; Dimensions of Otter, 423

DILLON, Sir JOHN, Bart.

Food of the Badger, 109; Hen carrying off a Waterhen, 150

DOBIE, W. HENRY

The White Wagtail in Anglesea, 227

DODSON, EDWARD

The size of British Newts, 191

DOUGLASS, G. NORMAN

Contributions to an Avifauna of Baden, 166

DOWLING, J. J.

Marten in Co. Dublin, 149

ELLIOTT, J. STEELE

Nesting of the Sparrowhawk, 24; Swimming powers of the Water Ouzel, 59; Palmated Newt in Worcestershire and Shropshire, 154; Bank Vole in Worcestershire and Shropshire, 223; Osprey in Bedfordshire, 395; Nesting of the Lesser Redpoll in Bedfordshire, 427

ELLISON, ALLAN

Cuckoo seen in March, 189

FLEMING, A. J.

Cuckoo seen in March, 150

FLEMYNG, Rev. WILLIAM W., M.A.

Habits of the Badger, 186; Cuckoo calling on the wing, 308; A visit to Puffin Island, Co. Kerry, 308

FOX, W. STORRS

Buzzard in Derbyshire, 342; Dotterel in Derbyshire, 344

FROWHAWK, F. W.

A list of birds observed at Tooting-Beck Common, near London, 178

GIBBONS, Capt. A. H.

The preservation of African Big Game, 201

GOLDSMITH, H. ST. B.

Uncommon birds in Somersetshire, 21; Early laying of the Cuckoo, 224; Lesser Redpoll breeding in Somersetshire, 228, 265, 304; Shag on Somersetshire coast, 267; Nesting of the Grey Wagtail in Somersetshire, 304; Nesting of the Hawfinch in Somersetshire, 304

GRABHAM, OXLEY, M.A.

Variation of plumage in Cuckoo, 225

GRIFFITH, A. F., M.A.

Baillon's Crake at Brighton, 427; On the attitudes of a Little Bittern in captivity, 454

GURNEY, J. H., F.L.S., F.Z.S.

On the partial assumption by female birds of male plumage, 15, 153; Ornithological notes from Norfolk, 83, 191; Ducks assuming drakes' plumage, 153; Dark variety of the Barn Owl, 226; Razorbills and Puffins cast ashore, 267; On the beak of the Scoter, 292; Black-backed Purple Gallinule in Hampshire, 427

HAGERUP, A. T.

Notes from Greenland, 56

- HAIGH, G. H. CATON
Lapland Bunting in Lincolnshire, 61; Wildfowl in Merionethshire, 110; Black Redsart in Kent, 226
- HALL, J.
Cuckoo seen in March, 181
- HAMILTON, EDWARD, M.D., F.L.S.
Supposed occurrence of the Black Stork in Devonshire, 429
- HAMMOND, W. OXENDEN
Snipe affected by soot, 60; Great Snipe in Kent, 429
- HART, H. CHICHESTER, B.A., F.L.S.
Cuckoos calling on the wing, 340
- HARTERT, ERNST
The migration of Partridges, 18
- HARTING, J. E., F.L.S., F.Z.S.
The Otter, 1, 41, 379; Choughs, Crows, and Rooks, 47; Red Grouse in Germany, 55; Barred Warbler in Yorkshire, 58; The Marten in Ireland, 100, 222; An egg of the Great Auk, 108; Hybrid Sparrows, 111, 118, 154; Cuckoo seen in March, 189, 224; Destruction of Martens in Ireland, 222; Variation of plumage in Cuckoo, 225; English records of *Coronella austriaca*, 229; Memorial to Gilbert White, 259; The Indian Antelope—period of gestation, 260; Reported nesting of Marsh Harrier near Oxford, 304; The new Act for the Protection of Birds' Eggs, 179, 321; The Weasel, 417, 445; American Golden Plover, 428; Albino Swallows, 430; The Bergylt, 431; Gestation of the Badger, 458; On the recent occurrence of the Yellow-browed Warbler in Yorkshire and Norfolk, 459
- HASTED, ARTHUR W.
Snow Buntings in Co. Kildare, 114; Great Spotted Woodpecker in North Wales, 115; Pied Flycatcher and Grey Wagtail in North Wales, 115; White Robins in Surrey, 150
- HERRICK, FRANCIS H.
The reproduction of the Lobster, 413
- HORSBRUGH, G. B.
Nesting of the Great Crested Grebe in the North of Ireland, 113; Lesser Redpoll breeding in Somerset, 265; Large clutches of eggs, 428
- JEFFERY, H. J.
Serotine Bat near Hastings, 261
- LANGDALE, Rev. H. M.
American Red-breasted Thrush in Leicestershire, 459
- LEVINGE, H. C.
Marten in Co. Westmeath, 423
- LILFORD, Rt. Hon. Lord, F.L.S.
Barbastelle in Northamptonshire, 187; Cuckoo seen in March, 189; Notes on the Ornithology of Northamptonshire and neighbourhood for 1893, 210; Pheasant nesting in a tree, 266; Barbastelle in Huntingdonshire, 395
- LONGRIDGE, Capt. C. C., Assoc. I.C.E.
Continental Oyster culture, 361
- LOWE, JOHN, M.D., F.L.S.
Albino Swallow, 430; Small birds and flowers, 271
- MACKAY, HUGH
Early Cuckoo in 1894, 263; Whiskered Tern in Dumfries, 268
- MACPHERSON, A. HOLTE, M.A., F.L.S.
Hybrid Finches at the Crystal Palace Bird Show, 114; Cuckoo calling on the wing, 306
- MACPHERSON, Rev. H. A., M.A.
Lapland Bunting in Sussex, 60; Pink-footed Goose in Dumfriesshire, 114; Waders on the Solway Firth, 115; Little Gull on the Solway Firth, 115; Habits of the Bank Vole, 149; Cuckoo seen in March, 190; Sapphirine Gurnard in the Solway Firth, 230, 270; The Ptarmigan in Lakeland, 326; Greater Spotted Woodpecker nesting in Scotland, 344; Hybrid Mallard and Sheldrake, 396, 427; Bonito in the Solway Firth, 397; Barrow's Goldeneye, 426; The Bergylt off Whitehaven, 431
- MATHEW, Rev. MURRAY A., M.A.
Lesser Grey Shrike in Hampshire, 345; Crossbills in Somersetshire, 346; Occurrence of the "Cape Pigeon" at Bournemouth, 396
- MATTHEWS, B. ST. JOHN ATTWOOD
Swimming powers of the Water Ouzel, 23
- MEADE-WALDO, EDMUND G., F.Z.S.
The Badger, its period of gestation, 221
- MILLS, F. H.
Black Rats on ships in port, 186

- MORE, A. G., F.L.S.**
Supposed occurrence of *Vespertilio murinus* in England—Correction of an error, 148
- MURDOCH, G. W.**
Woodcock breeding in the Lake district, 112
- NEAVE, NEWMAN**
Unusual abundance of the Bank Vole in 1893, 109
- Ogilvie, F. Menteith, M.A., F.Z.S.**
Cuckoo calling on the wing, 307
- OLDHAM, CHARLES**
Mammals of Cheshire, 303
- PATTERSON, ROBERT**
The Marten in Ireland, 141; Waxwing in Co. Down, 150
- PAYNE, J. W.**
Cuckoo calling on the wing, 306
- PERCIVAL, J., F.L.S.**
Grey Plover on the Yorkshire Moors in August, 429
- PLAYNE, HERBERT C.**
Nesting of the Marsh Warbler near Bath, 304; Lesser Redpoll breeding in Somersetshire, 305; Cuckoo calling on the wing, 306; Ornithological notes from France, 309
- PLEYDELL, J. C. MANSEL, F.L.S.**
An assembly of Vipers, 25; Green Woodpecker pursued by Sparrowhawk, 58; A brood of white Swallows, 59; Black Guillemot inland in Dorsetshire, 60
- POPHAM, H. LEYBORNE**
Albatross at the Færoe Islands, 338; Habits of the Herring Gull, 343
- PRATT & SONS**
Leach's Petrel on the Sussex coast, 25; Wildfowl on the Sussex coast, 60
- RAEBURN, HAROLD**
Mobbing by Crows, 116; The present status of the Hooded Crow in Southern Scotland, 261; Birds observed in Mid-Wales, 406
- RALFE, P.**
Uncommon birds in the Isle of Man, 63; A naturalist's visit to the Calf of Man, 161; Sea-bird colonies in the Isle of Man, 386
- RAMSBOTHAM, R. H.**
Curious accident to an Adder, 64
- RAWLINGS, F. C.**
A list of birds observed in the district of Barmouth, 328
- ROBERTSON, R. S.**
Ornithological notes from West Surrey, 110
- ROPE, G. T.**
Emys lutaria turned out in Suffolk, 311
- SALTER, J. H.**
Period of incubation of the Sparrowhawk, 341; Nesting of the Dotterel in Lakeland, 343; Unusual number of eggs for the Marsh Tit and Willow Wren, 345
- SAPSWORTH, A. D.**
The Hawfinch in Epping Forest, 188
- SERVICE, ROBERT**
The Black Guillemot on the Solway Firth, 55; Mortality amongst Short-eared Owls in Scotland, 57; The Squirrel in the Southern Highlands, 260; Homing instinct in Ferrets, 261; Short-eared Owls in Solway, 264; Great Northern Diver choked by a Gurnard, 265; A bifid worm, 271
- SHERIDAN, J. R.**
King Eider off Achill Island, Co. Mayo, 151; Surf Scoter off Achill Island, 151; Mealy Redpoll in Achill Island, 152; Buffon's Skua off Achill Island, 152; American Goldfinch on Achill Island, 396
- SMITH, J. N.**
Cuckoo chased by a Rook, 22; The Crayfish, 65
- SOUTHWELL, T., F.Z.S.**
Early mention of the Waxwing in England, 62; On the occurrence of the Bearded Seal on the Norfolk coast, 81, 187; Notes on the Seal and Whale Fishery of 1893, 128; Cuckoo seen in March, 189, 262; The Bergylt on the Norfolk coast, 230; *Scorpæna dactyloptera* on the Norfolk coast, 431
- SPEARS, JOHN R.**
The Corbin Game Park in New Hampshire, U.S.A., 203
- SPENCE, A. C.**
Rabbit breeding above ground, 458
- STOTT, C. E.**
Snow Bunting at Bolton-le-Moors, 151
- SWANN, HENRY K.**
Nesting of the Spotted Flycatcher, 59; Marsh Harrier nesting near

- Oxford, 227; Eggs of the Tree Sparrow, 309
 THOMAS, OLDFIELD, F.Z.S.
 Unusual abundance of the Bank Vole in 1893, 54
 TUCK, Rev. JULIAN G., M.A.
 Storm-driven sea-birds, 21; Blood-Olph, a name for the Bullfinch, 22; Wildfowl on the Norfolk coast, 64
 USSHER, W. J.
 Redstart breeding in Co. Tyrone, 306
 WARREN, ROBERT
 Little Auk in Co. Sligo, 20; Great Shearwater in Killala Bay, Co. Mayo, 22; Sand Martins nesting in a ruin, 305; Cormorant choked by a Flounder, 308
 WHITAKER, J., F.Z.S.
 Garganey at Rainworth, Notts, 116; Varieties of the Goldfinch, Greenfinch, Reed Bunting, and Blackbird, 150; Varieties of Rooks, 269; Variety of Waterhen, 270; Curious proximity of nests, 309
 WHITLOCK, F. B.
 The birds of Derbyshire, 110
 WICKHAM, Miss F. M.
 Pheasant nesting in a tree, 227, 266
 WILLIAMS, EDWARD
 American Golden Plover in Ireland, 428
 WILLIAMS, W.
 Turtle Dove breeding with Common Dove in confinement, 64
 WINTON, W. E. DE
 On a neglected species of British Field Mouse, 441
 WITHERBY, HARRY F.
 Woodcocks breeding in the Lake district, 152; Dotterel in Huntingdonshire, 266
 WYKEHAM, Rev. H. W.
 Robin nesting in a church, 269

ALPHABETICAL LIST OF SUBJECTS.

- Adams's Northern Diver, 119
 Adder, curious accident to, 64; *Apyornis*, remnants of, 119
 Africa, South, preservation of Big Game in, 201; English Oysters for, 231
 Albatross in Færoe Isles, 337, 338
 Amphithoe littorina, nest in a bottle, 315
 Antelope, Crawshay's, 28; Dwarf, 194; new from Somaliland, 195; Indian, period of gestation, 250; Sable head of, 32; Waterbuck, 33; of Pungue Valley, 119; S. African, 350, figured
 Antlers of Ruminants, origin and purpose, 241, 281; of Fallow Deer affected by removal of testis, 315
 Ants and plants associated, curious examples, 65
 Auk, Great, egg, 108,—early notice and figure, 142; Little, in Co. Sligo, 21, 64,—in Suffolk, 21,—in Isle of Man, 63,—in Norfolk, 90
 Auerhahn, derivation of the name, 177
 Avocet in Norfolk, 86; in Sussex, 346
 Baden, contributions to an Avifauna, 166
 Badger, food, 109; habits, 186; period of gestation, 186, 221, 458
 Bat, Barbastelle, in Northamptonshire, 187,—in Huntingdonshire, 395; Mouse-coloured, correction of error respecting, 148; Serotine, near Hastings, 261,—in Essex, 423
Bedfordshire.—Osprey, 395; Lesser Redpoll, 427
 Beetle, Goliath, 28, 463
 Bergylt on Norfolk coast, 230; off Whitehaven, 431
 Big Game, African, 32, 36, 202, 348
 Bird-life in Arctic Norway, 121
 Birds, female, partly assuming male plumage, 15, 153, 356; small, puncturing flowers to attract insects, 271; sea, storm-driven, in Suffolk, 21; uncommon, in Somersetshire, 21,—in Sussex, 60,—in Isle of Man, 63; of Derbyshire, 110; of Baden, 166; observed at Tooting-Beck Common, near London, 178; Wild, Protection

- Act (1880) Amendment, 179, 321 ; observed in district of Barmouth, 328,—in Mid-Wales, 406 ; autumn song, 410 ; nesting near Epsom, 429 ; of Staffordshire, 279 ; of Isle of Man, 386 ; of West Cheshire, 395 ; of Denbighshire, 397 ; of Flintshire, 397 ; of Rainham, 434 ; of Pembrokeshire, 437
- Bird-skins from Greenland, 56
- Bison heads from Lithuania, figured, 353
- Bittern in Oxfordshire, 93,—in Hants, 302,—nesting in Hants, 311,—in Surrey, 110, 429 ; breeding in confinement, 88 ; Little, in Norfolk, 88,—in Sussex, 454,—attitudes of, observed in captivity, 454
- Blackbird, variety, 91, 150
- "Blood-olph," a name for Bullfinch, 22
- Bonito in Solway Firth, 397
- BOOKS REVIEWED:—
- Horns and Hoofs ; or, Chapters on Hoofed Animals, by R. Lydekker, 31
- Travel and Adventure in South-east Africa, by F. C. Selous, 35
- The Tercentenary Edition of the Complete Angler, or Contemplative Man's Recreation, by Isaak Walton and Charles Cotton, edited by J. E. Harting, 70
- Monograph of the North American Proctotrypidæ, by William H. Ashmead, 76
- The Birds of Derbyshire, by F. B. Whitlock, 78, 110
- Les Coquilles des Eaux Douces et Saumâtres de France, par Arnould Locard, 79
- Bird Life in Arctic Norway, by Robert Collett, translated by A. H. Cocks, 121
- Text-book of Zoology, by H. A. Nicholson, 198
- The Partridge, by Rev. H. A. Macpherson, A. J. Stuart Wortley, and George Saintsbury, 199
- Life and Rock, a Collection of Zoological and Geological Essays, by R. Lydekker, 236
- Lost British Birds, by W. H. Hudson, 239
- The Birds of the County Cork, by R. J. Ussher, 240
- Five Months' Sport in Somali-land, by Lord Wolverton, 275
- The Hawks and Owls of the United States in their relation to Agriculture, by Dr. Hart Merriam and A. K. Fisher, 277
- Ornithology in relation to Agriculture and Horticulture, by various writers, edited by John Watson, 278
- The Birds of Staffordshire, with illustrations of local Bird-haunts, by Alexander McAlldowie, 279
- The Royal Natural History, edited by Richard Lydekker, with Preface by P. L. Selater, 316
- British Birds, being Coloured Illustrations of all the Species of Passerine Birds resident in the British Isles, with some Notes in reference to their Plumage, by Claude W. Wyatt, 317
- Alternating Generations, a Biological Study of Oak-galls and Gall-flies, by Hermann Adler, 319
- The Badminton Library: Big-game Shooting, by various contributors, edited by C. Phillipps-Wolley, 347
- Game Birds and Shooting Sketches: illustrating the Habits, mode of Capture, stages of Plumage, and the Hybrids and Varieties which occur amongst them, by John Guille Millais, 354
- The Grouse, by the Rev. H. Macpherson, A. J. Stuart Wortley, and George Saintsbury, 358
- Birds of West Cheshire, Denbighshire and Flintshire, 397
- Notes on the Birds of Rainham, including the District between Chatham and Sittingbourne, by Walter Prentis, 434
- The Birds of Pembrokeshire and its Islands, by the Rev. Murray A. Mathew, M.A., 437
- A Reprint of the 'North American Zoology,' by George Ord, with an Appendix by Samuel S. Rhoads, 466
- Allen's Naturalist's Library, edited by R. B. Sharpe: A Handbook to the Birds of Great Britain, by R. B. Sharpe, 468
- Breeding of Green Woodpecker, Grasshopper Warbler, Common Snipe, Bullfinch, Nightjar, Dabchick, Lesser Whitethroat, Kingfisher, and Mallard at Epsom, 25 ;

- of Turtle Dove with Common Dove in confinement, 64; of Hawfinch and Sandwich Tern in Norfolk, 88; of Red-backed Shrike and Barred Woodpecker in Oxfordshire, 95, 96; of Woodcock in Lake District, 112, 152, 187, 188; of Hooded Crow in Northumberland, 227,—in Warwickshire, 344; of Lesser Redpoll in Somerset, 228, 265, 304, 305; of Long-eared Owl, Tufted Duck, and Stone Curlew in Hants, 298, 299, 300, 301; of Redstart in Co. Tyrone, 306; of Saffron Finch in confinement, 460; of Rabbit above ground, 458
- Buceros melanoleucus*, nesting habits, 233
- Bullfinch, "Blood-olph" a name for, 22,—nest of, with three eggs of Bullfinch and one of Cuckoo, 23,—and Goldfinch, hybrid between, 90; Russian, in Norfolk, 85
- Bunting, Cirl, in Hants, 297,—nesting in Surrey, 429; Lapland, at Flamborough, 19,—in Sussex, 60,—in Lincolnshire, 61,—in Norfolk, 83, 89; Reed, variety of, 150; Snow, great flight of, in Yorkshire, 20,—in Oxfordshire, 99,—in Wales, 113,—in Co. Kildare, 114,—in Lancashire, 151,—in Hants, 302
- Butterflies tamed, 346; and moths, cats catching, 24, 336; with wings of male and female, 117
- Buzzard in Derbyshire, 342,—nesting in Wales, 409; Rough-legged in Norfolk, 84
- Cambridgeshire*.—Varieties of Goldfinch, Greenfinch, Reed Bunting, and Blackbird, 150; Waxwing, 152; Polecat, 303; Otter, 423
- Camel, wild, of Lob Nor, 234
- Capercaillie hen assuming male plumage, figured, 356
- Cats catching butterflies and moths, 24, 336; wild, in Lincolnshire, 257
- Caterpillars mimicking fruit, 463
- Cheshire*.—Bank Vole, 109; Mammals of, 303; Squirrels and Conifers, 336; tamed butterflies, 346
- Choughs, 47
- Cormorant choked by Flounder, 308
- Cornwall*.—Lumpsucker, 231
- Coronella austriaca*, 10; English records of, 229
- Crab, Hermit, figured, 72
- Crake, Baillon's, at Brighton, 427; Spotted, in Hants, 302
- Crayfish, 65
- Crossbill in Norfolk, 89; in Somersetshire, 346
- Crow, variety of, 215; Hooded, breeding in Northumberland, 227,—breeding in Warwickshire, 344,—present status of, in Southern Scotland, 261
- Crows, 47; mobbing by, 116; attacking Short-eared Owl, 264
- Cuckoo chased by Rook, 22; seen in March, 97, 150, 189, 190, 191, 224, 262; early arrival in 1894, 224, 263; early laying, 224; variation of plumage, 225; calling on the wing, 264, 306, 307, 308, 338, 340; young, reared in Swallow's nest, 340
- Cumberland*.—Woodcock, 112, 152, 187, 188; Bank Vole, 149; Badger, 186; Cuckoo, 190; Dipper, 269; hybrid Mallard and Sheldrake, 396, 427; Otter, 423; Barrow's Goldeneye, 426; Bergylt, 431
- Curlew, Pigmy, in Hants, 300; Stone, breeding in Hants, 301
- Cynogale bennetti*, a rare mammal of Borneo, 194
- Derbyshire*.—Birds of, 78, 110; Buzzard, 342; Dotterel, 344
- Devonshire*.—Black Stork, 429
- Dipper in Oxfordshire, 97; swimming powers of, 112; in Northamptonshire, 210; nesting of, in Cumberland, 269; in Hants, 296, 301
- Diver, Black-throated, in Norfolk, 84; Great Northern, choked by Gurnard, 265; White-billed Great Northern, 119
- Dolphin, White-backed, in Kilbrannan Sound, Arran, 424
- Dorsetshire*.—Vipers, 25; Green Woodpecker pursued by Sparrowhawk, 58; White Swallows, 59; Black Guillemot, 60; Cuckoo, 224
- Dotterel in Northamptonshire, 218; in Haddingtonshire, 266; nesting in Lakeland, 343; in Derbyshire, 344
- Dove, Ring, pairing with Domestic Pigeon, 23; Turtle, breeding with Common Dove in confinement, 64,—breeding in Hants, 299
- Duck, Australian, 67; Bimaculated, 85; Eider, on Norfolk coast, 64,—

- off Achill Island, Co. Mayo, 151;
Long-tailed, in Sussex, 60, — on
Norfolk coast, 64, — in Wales, 113;
Pintail and Wild, hybrid between,
85; Tufted, on Sussex coast, 61, —
breeding in Hants, 300
Ducks assuming Drakes' plumage,
153
Dunlin, variety, 85
Durham. — Otter, 108
- Eagle, Sea, mobbed by Rooks, 84
Earthworms, geographical distribu-
tion of, 29, 195
Echidna, structure of young, 68
Egg of Great Auk, 108
Eggs, wild birds', new Act for protec-
tion, 179, 321; of Tree Sparrow,
228, 309; unusual number of, for
Marsh Tit and Willow Wren, 345;
large clutches, 428
Emys lutaria turned out in Suffolk,
311
Essex. — Otter, 53; Hawfinch, 188;
Serotine Bat, 423
- Færoe Isles, Albatross, 337, 338
Falco vespertinus in Oxfordshire, 91
Falcon, Peregrine, in Somersetshire,
21; in Oxfordshire, 91; attacked by
Ravens, 219
Fauna of Lincolnshire, 253
Ferret, homing instinct, 261
Finch, Mountain, and Greenfinch,
hybrid between, 90; Saffron, breed-
ing in confinement, 460; Serin, in
Norfolk, 86
Finches, hybrid, at Crystal Palace
Bird Show, 114
Fishes, Marsipobranch, abnormal, 29,
— of Mt. Kenia, 68
Fly, Tsetse, 68
Flycatcher, Pied, in Wales, 115,
408; Spotted, nesting of, 59, —
abundance of, in Northampton-
shire, 216
Food of Otter, 53, 108; of Badger,
108
Fox killing Short-eared Owls, 57;
variation in colour, 335
France, ornithological notes from,
809
Frog, movements of, 462
- Gadwall in Norfolk, 84, 86
Gall-flies, 319
Gallinago major and Common Snipe,
hybrid between, 90
Gallinule, Grey-headed, in Norfolk,
85; Black-backed Purple, in
Hampshire, 427
Game, African Big, 32, 36, 202, 308;
preservation of, 201; in Corbin
Park, New Hampshire, U. S. A.,
203
Garganey at Rainworth, Notts, 116;
in Norfolk, 87
Germany, migration of Partridge in,
18; Red Grouse introduced into, 35
Golden-eye, Barrow's, 426
Goldfinch in Isle of Man, 64, — and
Bullfinch, hybrid between, 90, —
variety of, 150, — late nesting of,
344; American, on Achill Island,
Co. Mayo, 396
Goosander on Sussex coast, 61; in
Northamptonshire, 219
Goose, Brent, in Sussex, 61, — in
Hants 302; Pink-footed, in Dum-
friesshire, 114; Bean and White-
fronted, hybrid between, 214
Goniocotena variabilis, specimens of,
illustrating discontinuous variation
in colour, 233
Goshawk in Norfolk, 86
Grebe, Eared, in Isle of Man, 63;
Great Crested, in Oxfordshire, 99,
in North of Ireland, 113, — in North-
amptonshire, 219, — in Hants, 302;
Red-necked, in Hants, 300; Scla-
vonian, in Norfolk, 89, — in Wales,
113
Greenfinch, variety of, 150; and
Mountain Finch, hybrid between,
90
Greenland, ornithological notes from,
56; bird-skins from, 56
Grouse, Red, introduction into N.W.
Germany, 55; in Northampton-
shire, 218
Gudgeon, blind, 230
Guillemot driven ashore in Co. Sligo,
21, — driven ashore in Suffolk,
21, — caught by baited hook 90, —
caught in a fishing-line, 302;
Black, on Solway Firth, 55, — in-
land in Dorsetshire, 60, — on Nor-
folk coast, 64, 90
Gull, Glaucous, 90; Herring, habits
of, 343; Iceland, in Norfolk, 85;
Little, on Solway Frith, 115, — in
Norfolk, 85, 90; Mediterranean
Herring, range of, 58
Gulls eating candle-ends, 308
Gurnard, Sapphirine, in Solway Firth,
230, 270

Habits of Otter, 108, 457; of Bank Vole, 149; of Badger, 186; of Herring Gull, 343; of Weasel, 417, 445
Hampshire. — *Vespertilio murinus*, 148; Badger, 221; Memorial to Gilbert White, 259; ornithological notes, 295; Bittern, 311; Fox, 335; Cats catching butterflies and moths, 336; Green Woodpecker pursued by Sparrowhawk, 340; Montagu's Harrier, 341; Lesser Grey Shrike, 345; "Cape Pigeon," 396; Black-backed Purple Gallinule, 427
Hampshire, New (U.S.A.), Corbin Game Park in, 203
 Harrier, Hen, in Norfolk, 84, 89; Marsh, reported nesting of, near Oxford, 227, 268, 304; Montagu's, in Hants, 341
 Hawfinch breeding in Norfolk, 88, — in Epping Forest, 118; nesting in Somersetshire, 304; nesting in Surrey, 429
 Hawks and Owls of United States, 277
Herefordshire. — Palmated Newt, 191
 Heron carrying off Waterhen, 150, — early nesting, 152
 Hobby in Northamptonshire, 216
 Hoopoe at Hastings, 228
 Horns of Ruminants, origin and purpose of, 241, 281
Huntingdonshire. — Barbastelle, 395
 Hybrid Pheasant, 28; between Turtle Dove and Common Dove in confinement, 64; between Pintail and Wild Duck, 85; between Greenfinch and Mountain Finch, 90; between Goldfinch and Bullfinch, 90; between Bean and White-fronted Geese, 214; between Common Snipe and *Gallinago major*, 90; Sparrows, 111, 118, 154; Finches at Crystal Palace Bird Show, 114; between Mallard and Sheldrake, 396, 427
Ireland. — Little Auk, 20; Great Shearwater, 22; Red-breasted Snipe, 63; Little Gull, 64; Marten, 100, 134, 149, 187, 222, 394, 423; Badger, 109, 186; Great Crested Grebe, 113; Snow Bunting, 114; Squirrel, 148; Heron carrying off Waterhen, 150; Waxwing, 150; King Eider, 151; Surf Scoter, 151; Mealy Redpoll, 152; Buffon's Skua, 152; Sand Martin, 305; Redstart, 306; Cuckoo, 308, 340; Cormorant choked by

Flounder, 308; a visit to Puffin Island, 308; Gulls eating candle-ends, 308, 343; American Goldfinch, 396; White-beaked Dolphin, 424; American Golden Plover, 428; Woodcock, 430

Jays, English and Irish, 61

Kent. — Snipe, 60; Crayfish, 65; hybrid Finches, 114; Black Redstart, 226; Great Snipe, 429

Kestrel pursuing Rabbit, 87

Knot in Sussex, 61; great flight in Norfolk, 87

Lake District, Woodcock breeding in, 112, 152, 187, 188; Ptarmigan, 326; Dotterel, 343

Lancashire. — Snow Bunting, 151; Woodcock, 188

Lark, Shore, in Norfolk, 89; Sky, passage of, in Northamptonshire, 215, 219; Wood, in Sussex, 61, — in Oxfordshire, 95, — nesting in Hants, 299

Larus minutus in Sussex, 60

Larva of Sphinx Moth mimicking Tree Snake, 463

Larvæ of Lepidoptera, influence of environment upon colours of, 232

Leicestershire. — American Red-breasted Thrush, 459

Leridosiren paradoxa, 232

Lincolnshire. — Lapland Bunting, 61; Cuckoo, 224; fauna of, 253

Lobster, reproduction of, 413

Locust at Sierra Leone, 68

Lumpsucker at Penzance, 231

Madeira, Mediterranean Herring Gull on coast of, 58

Mallard and Sheldrake, hybrid between, 396, 427

Mammals of Cheshire, 303

Man, Calf of, naturalist's visit to, 161

Man, Isle of, uncommon birds in, 63; sea-bird colonies in, 386

Manatee, female and young, 28

Marten, figured, 73; in Ireland, 100, 134, 149, 187, 222, 394, 423; skull of, 117

Martin, Sand, nesting in a ruin, 305

Middlesex. — Spotted Flycatcher, 59; Cuckoo, 306

Midlands, Whimbrel in, 266

Migration of Meadow Pipit, 426; of Partridges, 18

Monmouthshire.—Water Ouzel, 23
 Mouse, British Field, on a neglected
 species of, 441

Mud-fish (*Protopterus annectens*),
 reproduction of, 195

Nest of Bullfinch with egg of Cuckoo,
 23; of Barn Owl, 87; Goldcrest,
 228; Hawfinch, 228; Peewit, 23;
 Long-tailed Tit, 86; of Robin in
 house, 193; Quail, 217; Song
 Thrush, 299; Amphirhoe littorina,
 315; Swallow, with young Cuckoo
 in, 340; Wasp, 196; curious prox-
 imity of, 309

Nesting of Sparrowhawk, 24; Spot-
 ted Flycatcher, 59; Marsh Warbler
 in Oxfordshire, 95,—in Somerset-
 shire, 304; Quail in Oxfordshire, 98,
 —in Northamptonshire, 217,—in
 Hants, 301; Great Crested Grebe
 in North of Ireland, 113; Heron,
 152; Grasshopper Warbler in
 Northamptonshire, 215, 216; Phea-
 sant in a tree, 227, 266; Horn-
 bill, 233; Robin in church, 269;
 Dipper in Cumberland, 269; Shel-
 drake in Hants, 300; Grey Wag-
 tail, Lesser Redpoll, and Hawfinch
 in Somersetshire, 304; Sand Mar-
 tin in a ruin, 305; Bittern in
 Hants, 311; Dotterel in Lakeland,
 343; Goldfinch, 344; Greater Spot-
 ted Woodpecker in Scotland, 344;
 Lesser Redpoll in Bedfordshire,
 427; Hawfinch and Cirl Bunting in
 Surrey, 429; Woodcock in Lake Dis-
 trict, 112, 152, 187, 188,—Co. Wick-
 low, 430; of Buzzard in Wales, 409

Newt, Palmated, in Worcestershire
 and Shropshire, 154; at Scar-
 borough, 191; in Herefordshire, 191

Newts, British, size of, 145, 191

Norfolk.—"Blood-olph" a name for
 Bullfinch, 22; Wildfowl, 64; Beard-
 ed Seal, 81, 187; ornithological
 notes, 83, 191; female birds assum-
 ing male plumage, 15, 153; Cuckoo,
 189, 262; Barn Owl, 226; Bergylt,
 230; Razorbills and Puffins, 267;
 Scoter, 292; *Scorpena dactyloptera*,
 430; Yellow-browed Warbler, 459

Northamptonshire.—Barbastelle, 187;
 Cuckoo, 189; Grasshopper War-
 bler, 215, 216; Woodlark, 215;
 ornithological notes, 210; Pheasant
 nesting in tree, 227, 266; Phalarope,
 219; Quail, 217

Northumberland.—Short-eared Owl,
 114, 226; Hooded Crow, 227

Norway, Arctic Bird-life in, 121

Notes, ornithological, from Epsom, 25,
 —from Greenland, 56,—from Nor-
 folk, 83, 191,—from Oxfordshire,
 91, 153,—from West Surrey, 110,—
 from Northamptonshire, 210,—
 from Hastings, 228,—from France,
 309

Nottinghamshire.—Garganey, 116;
 Cuckoo, 191; Rooks, 269; Water-
 hen, 270; Tree Sparrow, 309;
 curious proximity of nests, 309

Ornithological Notes (see Notes)

Ornithoptera paradisea from Finis-
 terre Mts., New Guinea, 197

Osprey in Norfolk, 88, 89; in Bed-
 fordshire, 395

Ostrich taking to water voluntarily, 62

Otter, 1, 41, 379; food of, 53, 108;
 habits of, 108, 457; dimensions of,
 423

Ouzel, Water, swimming powers of,
 23, 59

Owl, Barn, eating Bat, 87; nest of,
 with Rabbit's leg in, 87; variety
 of, 226; Long-eared, in Oxford-
 shire, 92,—breeding in Hants,
 298, 299; Scops, in Norfolk, 84;
 Short-eared, mortality amongst, in
 Scotland, 57,—killed by Fox, 57,—
 in Northumberland, 114, 226,—in
 Solway, 264,—attacked by Carrion
 Crows, 264

Oxfordshire.—Bank Vole, 54; or-
 nithological notes, 91, 153; Cuckoo,
 97, 190, 263; Stoat, 148, 223;
 Marsh Harrier, 227, 268, 334;
 Marsh Warbler on stones, 95;
 Quail nesting, 98; eggs of Tree
 Sparrow, 228; Robin, 269

Oyster culture, Continental, 361

Oysters, English, for South Africa,
 231

Partridge, migration of, 18; variety
 of, 84, 155

Peewit, date of hatching, 98; abun-
 dance of, in Mid-Hants, 296

Peregrine attacked by Ravens, 219

Petrel, Fork-tailed, in Norfolk, 90;

Leach's, on Sussex coast, 25;

Storm, in Sussex, 21

Petrels from Kermadec Isles, 29

Phalarope, Grey, in Somersetshire,
 21; in Staffordshire, 112; in Wales,

- 118; in Northamptonshire, 219; in Hants, 302
- Pheasant, Common, variety of, 68; nesting in a tree, 227, 266
- Pheasants, hybrid, 28
- Pigeon, Cape, at Bournemouth, 396; Domestic, pairing with Ring Dove, 23; Wood, large flights of, 85, 91, 210, 218, 220,—killed and eaten by Hawk, 92
- Pintail and Wild Duck, hybrid between, 85
- Pipit, Meadow, flock of, settling in trees, 93; autumnal migration of, 426
- Plover, American Golden, in Ireland, 428; Grey, on Yorkshire moors in August, 429; Kentish, in Sussex, 60
- Plumage, male, partly assumed by female birds, 15, 153; variation of, in Cuckoo, 225
- Polecat in Cambridgeshire, 303
- Porphyrio, Grey-headed, in Norfolk, 85; Black-backed, in Hants, 427
- Proctotrypes, figured, 77
- Ptarmigan in Lakeland, 326; and Grouse, hybrid, figured, 359
- Puffin driven ashore, 21, 84, 90, 267; in Oxfordshire, 96, 99; Island, a visit to, 308
- Quail in Norfolk, 90; nesting in Oxfordshire, 98,—in Northamptonshire, 217,—in Hants, 301
- Rabbit, young, pursued by Kestrel, 87; historical and geographical, notes on, 401; breeding above ground, 458
- Rats, Black, on ships in port, 186; gnawing through leaden pipe, 462
- Ravens attacking Peregrine Falcon, 219
- Razorbill cast ashore, 267
- Redpoll, variety, 90; Lesser, breeding in Somerset, 228, 265, 304, 305,—nesting in Bedfordshire, 427; Mealy, in Achill Island, Co. Mayo, 152,—in Northamptonshire, 220,—in Worcestershire, 345
- Redstart breeding in Co. Tyrone, 305; Black, in Norfolk, 84,—in Kent, 226,—in Sussex, 228
- Redwing, large flock of, 92; variety of, 220
- Reptiles from Mt. Kenia, 68
- Rhinoceros, Burchell's, in Mashonaland, 194
- River-hog of Madagascar, 119
- Robin nesting in a church, 269; nests, abnormal situation, 193; white, in Surrey, 150
- Rooks, 47; varieties, 269; mobbing Sea Eagle, 84; ejecting pellets, 67; law as to, 50
- Ruminants, horns and antlers, their origin and purpose, 241, 281
- Sandpiper, Curlew, in Hants, 300; Green, in Northamptonshire, 216, 219; Wood, in Norfolk, 89
- Scorpena dactyloptera on Norfolk coast, 430
- Scoter, Common, in Norfolk, 85,—in Warwickshire, 63; variation in beak of, 292; Surf, off Achill Island, Co. Mayo, 151; Velvet, on Sussex coast, 61
- Scotland.—Short-eared Owl, 57; Otter, 108; Pink-footed Goose, 114; Squirrel, 260; Hooded Crow, 261; Cuckoo, 263, 306, 307; Dotterel, 266; Short-eared Owl, 264; Great Northern Diver choked by Gurnard, 265; Whiskered Tern, 268; biffd Worm, 271; Greater Spotted Woodpecker, 344
- Sea-birds, storm-driven on Suffolk coast, 21; colonies of, in Isle of Man, 386
- Seal, vision of, 28; Bearded, on Norfolk coast, 81, 187
- Seal and Whale Fishery of 1893; notes on, 128
- Serim Finch in Norfolk, 86
- Shag on Somersetshire coast, 267
- Shearwater, Greater, in Killala Bay, Co. Mayo, 22,—in Norfolk, 85
- Sheldrake in Sussex, 60,—in Northamptonshire, 219,—nesting in Hants, 300,—and Mallard, supposed hybrid between, 396, 427; Ruddy, in Norfolk, 89,—in Hants, 302
- Shrew, Water, piscivorous habits, 65
- Shrike, Great Grey, in Worcester-shire, 21,—in Northamptonshire, 210,—in Hants, 295; Lesser Grey, in Hants, 345; Red-backed, breeding in Oxfordshire, 95, 97
- Shropshire.—Cuckoo, 150; Palmated Newt, 154; Bank Vole, 223
- Skua, Buffon's, off Achill Island, Co. Mayo, 152; Pomatorhine, in Somersetshire, 21,—in Norfolk, 84, 90
- Snake, variations of Smooth, 10, 229;

- vertebra of earliest known, from gault of Portugal, 233
- Snakes, Australian, poison of, 313
- Snipe affected by soot, 60, — abundance of, in Sussex, 61; Common and Gallinago major, hybrid between, 90; Great, in Kent, 429; Red-breasted, in Ireland, 63
- SOCIETIES, SCIENTIFIC :—
- Linnean, 26, 65, 117, 155, 192, 232, 271, 462
- Zoological, 28, 67, 119, 157, 193, 233, 273, 315, 463
- British Ornithologists' Union, 235
- Entomological, 29, 69, 119, 158, 195, 235, 274, 431, 465
- Solway Firth, Black Guillemot on, 55; Waders on, 115; Little Gull on, 115; Sapphirine Gurnard in, 230, 270; Bonito, 397
- Somersetshire. — Uncommon birds, 21; Cuckoo, 224, 306; Lesser Redpoll, 228, 265, 304, 305; Shag, 267; Grey Wagtail, 304; Hawfinch, 304; Lesser Redpoll breeding, 228, 265, 304, 305; Marsh Warbler, 304; Crossbill, 346; large clutches of eggs, 428
- Song, autumn, of birds, 410
- Sparrow, Tree, eggs, 228, 309
- Sparrowhawk, nesting of, 24; pursuing Green Woodpecker, 58, 340; period of incubation, 341
- Sparrows damage thatch, 99; hybrid, 111, 118, 154
- Spiders, British Trapdoor, 193
- Spindle, achromatic, in Elasmobranchs, 463
- Spoonbill in Norfolk, 86, 87
- Squirrel destructive in plantations, 148; in Southern Highlands, 260; and conifers, 336
- Staffordshire. — Grey Phalarope, 112; Water Vole, 223
- Stictonetta nœvosa, 67
- Stoats in ermine dress, 148, 223
- Stonechat nesting at Epsom, 429
- Stork, Black, supposed occurrence in Devonshire, 429
- Suffolk. — Sea-birds, 21; Bullfinch's nest with egg of Cuckoo, 23; hybrid Sparrows, 111, 154; Cuckoo, 307, 338; Emys lutaria turned out, 311; Goldfinch, 344
- Surrey. — Ornithological notes, 25, 110; white Robin, 150; Heron, 152; birds observed at Tooting-Beck Common, 178; Badger, 186; Cuckoo, 189; Meadow Pipit, 426 birds nesting in, 429; Bittern, 429
- Sussex. — Cuckoo chased by Rook, 22; Leach's Petrel, 25; Lapland Bunting, 60; uncommon birds, 60; Wildfowl, 60; accident to Adder, 64; Cuckoo, 189; ornithological notes, 228; Serotine Bat, 261; Avocet, 346; Meadow Pipit, 426; Baillon's Crake, 427; albino Swallow, 430; Little Bittern in captivity, 454
- Swallows, white, 59, 430
- Swan, Bewick's, in Norfolk, 85; in Wales, 113; wild, in Northamptonshire, 211, 212
- Tern, Black, in Norfolk, 87, — in Northamptonshire, 219; Sandwich breeding in Norfolk, 88, — in Hants, 302; Whiskered, in Dumfriesshire, 268; White-winged Black, in Norfolk, 86, 87
- Thrush, American Red-breasted, in Leicestershire, 459; Missel, killed and eaten by Hawk, 92, — nesting in Hants, 297; Song, nest without mud lining, 299
- Tit, Bearded, in Norfolk, 87; Long-tailed, in Isle of Man, 64, — numerous nests of in Norfolk, 86; Marsh, unusual number of eggs for, 345
- Variety of Marsipobranch Fishes, 29; of Swallow, 59, 430; of Common Pheasant, 68; of Partridge, 84, 155; of Dunlin, 85; of Snipe, 90; of Redpoll, 90; of Blackbird, 91, 150; of Teraculus halyattes, 117; of Goldfinch, Greenfinch, Reed Bunting, and Robin, 150; of Water Vole, 155; of Carrion Crow, 215; of Redwing, 220; of Barn Owl, 226; of Rook, 269; of Waterhen, 270
- Vespertilio murinus (see Bat, Mouse-coloured)
- Vipers, assembly of, 25
- Vole, Bank, unusual abundance in 1893, 54, 109, — in Oxfordshire, 54, — habits, 149, — in Shropshire, 223, — in Worcestershire, 223, 303, — in Warwickshire, 303; Water, variety, 155, — at a distance from water, 223
- Waders on Solway Firth, 115
- Wagtail, Grey, in Norfolk, 86, — in

- North Wales, 115,—in Northamptonshire, 214, 217,—abundant in Hants, 296, 302,—nesting in Somersetshire, 304; White, in Worcester-shire, 24,—in Oxfordshire, 93,—in Anglesea, 227
- Wales*.—Dipper, 112; Wildfowl, 113; Greater Spotted Woodpecker, Pied Flycatcher, Grey Wagtail, 115; White Wagtail, 227; birds of Bar-mouth district, 328; Sparrowhawk, 341; Marsh Tit, Willow Wren, 345; Mid-, birds of, 406
- Warbler, Barred, in Yorkshire, 58; Grasshopper, in Oxfordshire, 95,—meeting in Northamptonshire, 215, 216; Icterine, in Norfolk, 89; Marsh, nesting in Oxfordshire, 95,—in Somersetshire, 304; Yellow-browed, in Yorkshire and Norfolk, 459
- Warwickshire*.—Common Scoter, 63; Bank Vole, 303; Cuckoo, 307; Hooded Crow, 344
- Waterbuck, head of, 33
- Waterhen carried off by Heron, 150; variety, 270
- Waxwing in Worcestershire, 24; early mention in England, 62; in Co. Down, 150; near Newmarket, 152; in Norfolk, 86
- Weasel, 417, 445
- Weir, John Jenner, death of, 184
- Whimbrel in Norfolk, 87,—in Northamptonshire, 216; in the Midlands, 266
- White, Gilbert, memorial to, 259
- Whitethroat, Lesser, date of arrival, 93, 153
- Wild Birds Protection Act (1880) Amendment, 179, 321
- Wildfowl on Sussex coast, 60; on Norfolk coast, 64; in Merioneth-shire, 113
- Woodcock breeding in Lake district, 112, 152, 187, 188; in Co. Wick-low, 430
- Woodlark, rare in North Hants, 215
- Woodpecker, Barred, breeding in Oxfordshire, 96,—in Hants, 295, 296; Greater Spotted, in North Wales, 115,—nesting in Scotland, 344; Green, pursued by Sparrowhawk, 58, 340
- Worcestershire*.—Great Grey Shrike, 21; White Wagtail, Sparrowhawk, Waxwing, 24; Water Ouzel, 59; Palmated Newt, 154; Bank Vole, 223, 303; Mealy Redpoll, 345
- Worm, bifid, 271
- Wren, Willow, unusual number of eggs for, 345; Wood, in Oxfordshire, 95,—in Hants, 299, 300
- Yorkshire*.—Lapland Bunting, 19; Barred Warbler, 58; Cuckoo, 190, 225, 340; Palmated Newt, 191; Gudgeon, numbers of Blind, 230; Grey Plover, 429; Otter, 457; Rabbit breeding above ground, 458; Yellow-browed Warbler, 459



ILLUSTRATIONS.

PLATE I. THE OTTER, <i>Lutra vulgaris</i> . . .	To face page 1
,, II. THE WEASEL, <i>Mustela vulgaris</i> . . .	,, 417
,, III. ATTITUDES OF LITTLE BITTERN IN CAPTIVITY . . .	,, 455
,, IV. THE HARVEST MOUSE, <i>Mus messorius</i> . . .	,, 454
VARIATIONS IN SNOUT OF SMOOTH SNAKE, <i>Coronella austriaca</i>	page 13
HEAD OF SABLE ANTELOPE, <i>Hippotragus niger</i> . . .	32
HEAD OF WATER-BUCK, <i>Coleus ellipsiprymnus</i> . . .	33
HERMIT CRAB IN SHELL OF WHELK ENCRUSTED WITH BARNACLES . . .	72
THE MARTEN, <i>Martes sylvatica</i> . . .	73
PROCTOTYPES, Latreille . . .	77
FIGURES OF ALCA IMPENNIS, from Seller's 'English Pilot' . . .	148
BEAK OF THE SCOTER, <i>Ædemia nigra</i> . . .	298
BIG GAME ON THE SIRINGETI PLAINS . . .	348
SOUTH AFRICAN ANTELOPES . . .	350
BISON HEADS FROM LITHUANIA . . .	353
HEN CAPERCAILLIE ASSUMING MALE PLUMAGE . . .	356
SUPPOSED HYBRID BETWEEN PTARMIGAN AND GROUSE . . .	357





Zool Jan. 1894.

Plate 1.



The Otter.
Lutra Vulgaris.

West, Newman inv.